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Listing of the Claims:

Claims 1 through 36 (cancelled).

- 37. (New claim) An isolated polypeptide comprising an amino acid sequence selected from the group consisting of:
 - (a) an amino acid sequence from residue 1 (Met) to residue 25 (Ala) of SEQ ID NO:2;
 - (b) an amino acid sequence from residue 1 (Met) to residue 52 (Trp) of SEQ ID NO:2;
 - (c) an amino acid sequence from residue 1 (Met) to residue 118 (Arg) of SEQ ID NO:2;
 - (d) an amino acid sequence from residue 1 (Met) to residue 142 (Cys) of SEQ ID NO:2;
 - (e) an amino acid sequence from residue 26 (Arg) to residue 52 (Trp) of SEQ ID NO:2;
 - (f) an amino acid sequence from residue 26 (Arg) to residue 53 (Arg) of SEQ ID NO:2;
 - (g) an amino acid sequence from residue 26 (Arg) to residue 54 (Arg) of SEQ ID NO:2;
 - (h) an amino acid sequence from residue 26 (Arg) to residue 114 (Leu) of SEQ ID NO:2;
 - (i) an amino acid sequence from residue 26 (Arg) to residue 118 (Arg) of SEQ ID NO:2;
 - (i) an amino acid sequence from residue 34 (Leu) to residue 47 (Cys) of SEQ ID NO:2;
 - (k) an amino acid sequence from residue 37 (Arg) to residue 41 (Arg) of SEQ ID NO:2;
 - (1) an amino acid sequence from residue 55 (Ser) to residue 114 (Leu) of SEQ ID NO:2;
 - (m)an amino acid sequence from residue 55 (Ser) to residue 115 (Arg) of SEQ ID NO:2;
 - (n) an amino acid sequence from residue 55 (Ser) to residue 116 (Gly) of SEQ ID NO:2;
 - (o) an amino acid sequence from residue 55 (Ser) to residue 117 (Ser) of SEQ ID NO:2;
 - (p) an amino acid sequence from residue 55 (Ser) to residue 118 (Arg) of SEQ ID NO:2;
 - (q) an amino acid sequence from residue 55 (Ser) to residue 142 (Cys) of SEQ ID NO:2;
 - (r) an amino acid sequence from residue 115 (Arg) to residue 142 (Cys) of SEQ ID NO:2;
 - (s) an amino acid sequence from residue 116 (Gly) to residue 142 (Cys) of SEQ ID NO:2;

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(t) an amino acid sequence from residue 117 (Ser) to residue 142 (Cys) of SEQ ID NO:2;

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- (u) an amino acid sequence from residue 118 (Arg) to residue 142 (Cys) of SEQ ID NO:2;
- (v) an amino acid sequence from residue 119 (Asp) to residue 142 (Cys) of SEQ ID NO:2; and
- (w) an amino acid sequence from residue 128(Cys) to residue 142 (Cys) of SEQ ID NO:2.
- 38. (New claim) The isolated polypeptide of claim 37, further comprising an affinity tag.
- 39. (New claim) The isolated polypeptide of claim 38, wherein the affinity tag is selected from the group consisting of: poly-histidine tract, protein A, glutathione S transferase, Glu-Glu affinity tag, substance P, Flag peptide, streptavidin binding peptide, maltose-binding protein, and an immunoglobulin domain.
- 40. (New claim) An isolated polypeptide consisting of an amino acid sequence selected from the group consisting of:
 - (a) an amino acid sequence from residue 1 (Met) to residue 25 (Ala) of SEQ ID NO:2;
 - (b) an amino acid sequence from residue 1 (Met) to residue 52 (Trp) of SEQ ID NO:2;
 - (c) an amino acid sequence from residue 1 (Met) to residue 118 (Arg) of SEQ ID NO:2;
 - (d) an amino acid sequence from residue 1 (Met) to residue 142 (Cys) of SEQ ID NO:2;
 - (e) an amino acid sequence from residue 26 (Arg) to residue 52 (Trp) of SEQ ID NO:2;
 - (f) an amino acid sequence from residue 26 (Arg) to residue 53 (Arg) of SEQ ID NO:2;
 - (g) an amino acid sequence from residue 26 (Arg) to residue 54 (Arg) of SEQ ID NO:2;
 - (h) an amino acid sequence from residue 26 (Arg) to residue 114 (Leu) of SEQ ID NO:2;
 - (i) an amino acid sequence from residue 26 (Arg) to residue 118 (Arg) of SEQ ID NO:2;
 - (i) an amino acid sequence from residue 34 (Leu) to residue 47 (Cys) of SEQ ID NO:2;
 - (k) an amino acid sequence from residue 37 (Arg) to residue 41 (Arg) of SEQ ID NO:2;
 - (1) an amino acid sequence from residue 55 (Ser) to residue 114 (Leu) of SEQ ID NO:2;

- (m) an amino acid sequence from residue 55 (Ser) to residue 115 (Arg) of SEQ ID NO:2;
 - (n) an amino acid sequence from residue 55 (Ser) to residue 116 (Gly) of SEQ ID NO:2;
 - (o) an amino acid sequence from residue 55 (Ser) to residue 117 (Ser) of SEQ ID NO:2;
 - (p) an amino acid sequence from residue 55 (Ser) to residue 118 (Arg) of SEQ ID NO:2;
 - (q) an amino acid sequence from residue 55 (Ser) to residue 142 (Cys) of SEQ ID NO:2;
 - (r) an amino acid sequence from residue 115 (Arg) to residue 142 (Cys) of SEQ ID NO:2;
 - (s) an amino acid sequence from residue 116 (Gly) to residue 142 (Cys) of SEQ ID NO:2;
 - (t) an amino acid sequence from residue 117 (Ser) to residue 142 (Cys) of SEQ ID NO:2;
 - (u) an amino acid sequence from residue 118 (Arg) to residue 142 (Cys) of SEQ ID NO:2:
 - (v) an amino acid sequence from residue 119 (Asp) to residue 142 (Cys) of SEQ ID NO:2; and
 - (w) an amino acid sequence from residue 128(Cys) to residue 142 (Cys) of SEQ ID NO:2.
- 41. (New claim) An isolated polypeptide comprising SEQ ID NO:2.
- 42. (New claim) The isolated polypeptide of claim 41, further comprising an affinity tag.
- 43. (New claim) The isolated polypeptide of claim 42, wherein the affinity tag is selected from the group consisting of: poly-histidine tract, protein A, glutathione S transferase, Glu-Glu affinity tag, substance P, Flag peptide, streptavidin binding peptide, maltose-binding protein, and an immunoglobulin domain.
- 44. (New claim) An isolated polypeptide consisting of SEQ ID NO:2.
- 45. (New claim) An isolated polypeptide comprising:
 - (a) a B chain comprising amino acid sequence selected from the group consisting of:

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- (i) an amino acid sequence from residue 26 (Arg) to residue 52 (Trp) of SEQ ID NO:2,
- (ii) an amino acid sequence from residue 26 (Arg) to residue 53 (Arg) of SEQ ID NO:2,
- (iii) an amino acid sequence from residue 26 (Arg) to residue 54 (Arg) of SEQ ID NO:2,
- (iv) an amino acid sequence from residue 34 (Leu) to residue 47 (Cys) of SEQ ID NO:2, and
- (v) an amino acid sequence from residue 37 (Arg) to residue 41 (Arg) of SEQ ID NO:2; and
- (b) a C peptide comprising an amino acid sequence selected from the group consisting of:
 - (i) an amino acid sequence from residue 55 (Ser) to residue 114 (Leu) of SEQ ID NO:2,
 - (ii) an amino acid sequence from residue 55 (Ser) to residue 115 (Arg) of SEQ ID NO:2,
 - (iii) an amino acid sequence from residue 55 (Ser) to residue 116 (Gly) of SEQ ID NO:2,
 - (iv) an amino acid sequence from residue 55 (Ser) to residue 117 (Ser) of SEQ ID NO:2, and
 - (v) an amino acid sequence from residue 55 (Ser) to residue 118 (Arg) of SEQ ID NO:2; and
- (c) an A chain comprising an amino acid sequence selected from the group consisting of:
 - (i) an amino acid sequence from residue 115 (Arg) to residue 142 (Cys) of SEQ ID NO:2,
 - (ii) an amino acid sequence from residue 116 (Gly) to residue 142 (Cys) of SEQ ID NO:2,
 - (iii) an amino acid sequence from residue 117 (Ser) to residue 142 (Cys) of SEQ ID NO:2,
 - (iv) an amino acid sequence from residue 118 (Arg) to residue 142 (Cys) of SEQ ID NO:2,

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- an amino acid sequence from residue 119 (Asp) to residue 142 (Cys) of (v) SEQ ID NO:2, and
- an amino acid sequence from residue 128(Cys) to residue 142 (Cys) of (vi) SEQ ID NO:2,

wherein the B chain, C peptide and A chain are joined by inter- and intra-chain disulfide bonds.

- 46. (New claim) The isolated polypeptide of claim 45, wherein the B chain comprises an an amino acid sequence from residue 26 (Arg) to residue 52 (Trp) of SEQ ID NO:2, the C peptide comprises an amino acid sequence from residue 55 (Ser) to residue 114 (Leu) of SEQ ID NO:2, and the A chain comprises an amino acid sequence from residue 119 (Asp) to residue 142 (Cys) of SEQ ID NO:2.
- 47. (New claim) The isolated polypeptide of claim 45, further comprising an affinity tag.
- 48. (New claim) The isolated polypeptide of claim 47, wherein said affinity tag is selected from the group consisting of: poly-histidine tract, protein A, glutathione S transferase, Glu-Glu affinity tag, substance P, Flag peptide, streptavidin binding peptide, maltosebinding protein, and an immunoglobulin domain.
- 49. (New claim) An isolated polypeptide comprising:
 - (a) a B chain comprising amino acid sequence selected from the group consisting of:
 - an amino acid sequence from residue 26 (Arg) to residue 52 (Trp) of (i) SEQ ID NO:2,
 - (ii) an amino acid sequence from residue 26 (Arg) to residue 53 (Arg) of SEQ ID NO:2,
 - an amino acid sequence from residue 26 (Arg) to residue 54 (Arg) of (iii) SEQ ID NO:2,
 - an amino acid sequence from residue 34 (Leu) to residue 47 (Cys) of (iv) SEQ ID NO:2, and
 - an amino acid sequence from residue 37 (Arg) to residue 41 (Arg) of (v) SEQ ID NO:2; and

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- (b) an A chain comprising an amino acid sequence selected from the group consisting of:
 - (i) an amino acid sequence from residue 115 (Arg) to residue 142 (Cys) of SEQ ID NO:2,
 - (ii) an amino acid sequence from residue 116 (Gly) to residue 142 (Cys) of SEQ ID NO:2,
 - (iii) an amino acid sequence from residue 117 (Ser) to residue 142 (Cys) of SEQ ID NO:2,
 - (iv) an amino acid sequence from residue 118 (Arg) to residue 142 (Cys) of SEQ ID NO:2,
 - (v) an amino acid sequence from residue 119 (Asp) to residue 142 (Cys) of SEQ ID NO:2, and
 - (vi) an amino acid sequence from residue 128(Cys) to residue 142 (Cys) of SEQ ID NO:2,

wherein the B chain and A chain are joined by inter- and intra-chain disulfide bonds.

- 50. (New claim) The isolated protein of claim 49, wherein the B chain comprises an an amino acid sequence from residue 26 (Arg) to residue 52 (Trp) of SEQ ID NO:2, and the A chain comprises an amino acid sequence from residue 119 (Asp) to residue 142 (Cys) of SEQ ID NO:2.
- 51. (New claim) The isolated protein of claim 45, further comprising an affinity tag.
- 52. (New claim) The isolated protein of claim 51, wherein said affinity tag is selected from the group consisting of: poly-histidine tract, protein A, glutathione S transferase, Glu-Glu affinity tag, substance P, Flag peptide, streptavidin binding peptide, maltose-binding protein, and an immunoglobulin domain.
- 53. (New claim) A composition, comprising a pharmaceutically acceptable carrier and a polypeptide of claim 37.
- 54. (New claim) A composition, comprising a pharmaceutically acceptable carrier and a polypeptide of claim 41.

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- 55. (New claim) A composition, comprising a pharmaceutically acceptable carrier and a polypeptide of claim 45.
- 56. (New claim) A composition, comprising a pharmaceutically acceptable carrier and a polypeptide of claim 49.